

# Method for the detection of cytosine methylations in DNA by means of cytidine deaminases

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Detecting cytosine methylation in DNA comprises: - (a) treating test DNA with a cytidine deaminase (I) that deaminates cytosine (C) and 5-methylcytosine (5MeC) at different rates; - (b) analyzing the sequence of the partially deaminated DNA, and, from the presence or proportion of deaminated positions, deducing the methylation status of the DNA at these positions. - An INDEPENDENT CLAIM is also included for a kit for the method that contains an activation-induced cytidine deaminase (AID), or its biologically active fragment or modified form, oligomers, and deamination buffer, and optionally also polymerase, primers and probes for amplification and detection.

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